

U.S. ENVIRONMENTAL PROTECTION AGENCY

Region VI



West Fertilizer Plant Explosion Summary of Mobile Air Monitoring Data Reporting Period 04/18/2013

EPA conducted mobile air monitoring in the residential neighbor hoods surrounding the incident location. EPA monitored for carbon monoxide (CO), ammonia (NH₃), volatile organic compounds (VOCs), lower explosive limit (LEL), and oxygen (O₂). A summary of the air monitoring data collected during this reporting period is provided below.

Table 1 – Summary of Mobile Air Monitoring Locations

Collection Time	Parameter	Count of Readings	Count of Detects	Average Concentration	Maximum Detection	Units
11:50 - 12:30	CO	335	0	0.0	0.0	ppm
	NH3	335	0	0.0	1.0	ppm
	LEL	335	0	0.0	0.0	%
	OXY	335	0	20.9	NA	%
	VOC	335	15	0.0	0.1	ppm
15:17 – 16:05	CO	335	0	0.0	0.0	ppm
	NH3	335	0	0.0	1.0	ppm
	LEL	335	0	0.0	0.0	%
	OXY	335	0	20.9	NA	%
	VOC	335	15	0.0	0.1	ppm
18:00 - 19:16	CO	335	0	0.0	0.0	ppm
	NH3	335	0	0.0	1.0	ppm
	LEL	335	0	0.0	0.0	%
	OXY	335	0	20.9	NA	%
	VOC	335	15	0.0	0.1	ppm
20:26 - 21:19	CO	581	523	0.2	1.7	ppm
	NH3	581	0	0.0	0.0	ppm
	LEL	581	0	0.0	0.0	%
	OXY	581	0	21.2	NA	%
	VOC	581	33	0.0	0.5	ppm

Figure 1 – 11:50 – 12:30 Mobile Run Track and NH3 Results



Figure 2 15:17-16:05 Mobile Run Track and NH3 Results



Legend

**6 PM Run
NH₃ Results**

- Non-Detect
- 0 - 10 ppm
- 10 - 30 ppm
- > 30 ppm



Legend

**10 PM Run
NH3 Results**

- Non-Detect
- 0 - 10 ppm
- 10- 30 ppm
- > 30 ppm

